

EAST Search History

EAST Search History (Prior Art)

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|--------|--|-------------------|------------------|---------|------------------|
| S1 | 1401 | hydrocarbon and (convert\$4 or conversion) and distillat\$4 | EPO; JPO; DERWENT | OR | ON | 2008/01/30 12:17 |
| S2 | 1231 | hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/30 12:18 |
| S3 | 604628 | tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | EPO; JPO; DERWENT | OR | ON | 2008/01/30 12:21 |
| S4 | 542998 | alumina or silica or titania or zirconia or magnesia or boria or (phosphorous adj oxide) | EPO; JPO; DERWENT | OR | ON | 2008/01/30 12:23 |
| S5 | 30 | S1 and S2 and S4 | EPO; JPO; DERWENT | OR | ON | 2008/01/30 12:23 |
| S6 | 17 | S5 and ratio | EPO; JPO; DERWENT | OR | ON | 2008/01/30 14:33 |
| S7 | 1 | EP-94827-\$.DID. | EPO | OR | ON | 2008/01/31 08:33 |
| S8 | 0 | S7 and distillate | EPO | OR | ON | 2008/01/31 08:58 |
| S9 | 1424 | ((208/274) or (208/111) or (208/89) or (208/59)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/31 15:41 |
| S10 | 1401 | hydrocarbon and (convert\$4 or conversion) and distillat\$4 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:42 |
| S11 | 1231 | hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:42 |
| S12 | 604628 | tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:42 |
| S13 | 542998 | alumina or silica or titania or zirconia or magnesia or boria or (phosphorous adj oxide) | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:42 |
| S14 | 0 | S9 and S10 and S11 and S12 and S13 | US-PGPUB; USPAT | OR | ON | 2008/01/31 15:42 |

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|-----|--------|---|---------------------------|----|-----|---------------------|
| S15 | 0 | S9 and S10 and S11 and S13 | US-PGPUB; USPAT | OR | ON | 2008/01/31 15:43 |
| S16 | 0 | S9 and S10 and S11 | US-PGPUB; USPAT | OR | ON | 2008/01/31 15:43 |
| S17 | 0 | S9 and S10 | US-PGPUB; USPAT | OR | ON | 2008/01/31 15:43 |
| S18 | 1401 | hydrocarbon and (convert\$4 or conversion) and distillat\$4 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S19 | 1231 | hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S20 | 604628 | tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S21 | 542998 | alumina or silica or titania or zirconia or magnesia or boria or (phosphorous adj oxide) | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S22 | 7 | S18 and S19 and S20 and S21 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S23 | 1424 | ((208/274) or (208/111) or (208/89) or (208/59)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/31 15:45 |
| S24 | 0 | S22 and S23 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:45 |
| S25 | 0 | S18 and S23 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:46 |
| S26 | 280665 | hydrocarbon | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:47 |
| S27 | 0 | S19 and S23 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:48 |
| S28 | 0 | S18 and S23 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:48 |
| S29 | 701 | S23 and hydrocarbon and (convert\$4 or conversion) and distillat \$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:49 |
| S30 | 0 | S29 and hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:50 |
| S31 | 0 | S23 and hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:50 |

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| S32 | 1064184 | S29 and tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:50 |
| S33 | 56702 | "208"/\$.ccls. | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:52 |
| S34 | 0 | S33 and S18 and S19 and S20 and S21 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:52 |
| S35 | 0 | S33 and S18 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:52 |
| S36 | 56702 | S33 or S18 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:53 |
| S37 | 0 | S33 and S18 | US-PGPUB; USPAT; USOCR | AND | ON | 2008/01/31 15:53 |
| S38 | 14447 | S33 and hydrocarbon and (convert\$4 or conversion) and distillat\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 15:53 |
| S39 | 0 | S38 and hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 15:53 |
| S40 | 8870 | S38 and (tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum) | US-PGPUB; USPAT; USOCR | AND | ON | 2008/01/31 15:54 |
| S41 | 7542 | S40 and (alumina or silica or titania or zirconia or magnesia or boria or phosphorous adj oxide) | US-PGPUB; USPAT; USOCR | AND | ON | 2008/01/31 15:55 |
| S42 | 3328 | S41 and catalyst and zeolite | US-PGPUB; USPAT; USOCR | AND | ON | 2008/01/31 15:56 |
| S43 | 10 | S42 and (hydro adj crack\$4) and (beta adj zeolite) | US-PGPUB; USPAT; USOCR | AND | ON | 2008/01/31 15:57 |
| S44 | 3784 | ((208/28) or (208/58) or (208/59) or (208/89) or (208/111) or (208/138) or (208/139) or (208/143)).CCLS. | US-PGPUB; USPAT | OR | OFF | 2008/01/31 16:00 |
| S45 | 1401 | hydrocarbon and (convert\$4 or conversion) and distillat\$4 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:01 |
| S46 | 1231 | hydrocrack\$4 and catalyst and zeolite | EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:01 |
| S47 | 604628 | tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:01 |

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| S48 | 542998 | alumina or silica or titania or zirconia or magnesia or boria or (phosphorous adj oxide) | EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:01 |
| S49 | 0 | S45 and S46 and S47 and S48 | US-PGPUB; USPAT | OR | ON | 2008/01/31 16:01 |
| S50 | 0 | S44 and hydrocarbon and (convert\$4 or conversion) and distillat \$4 | EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:02 |
| S51 | 1615 | S44 and hydrocarbon and (convert\$4 or conversion) and distillat \$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:02 |
| S52 | 787 | S51 and hydrocrack\$4 and catalyst and zeolite | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:03 |
| S53 | 1064184 | S52 and tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:03 |
| S54 | 767 | S52 and (tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:04 |
| S55 | 766 | S54 and (alumina or silica or titania or zirconia or magnesia or boria or phosphorous adj oxide) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:04 |
| S56 | 217 | S55 and (beta adj zeolite or zeolite adj beta) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:05 |
| S57 | 19 | S56 and (ion adj exchange adj capacity) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:06 |
| S58 | 0 | S56 and (acidity adj index) | US-PGPUB; USPAT; USOCR | OR | ON | 2008/01/31 16:06 |
| S59 | 22 | US-1518789-\$.DID. OR DE-200371526-\$.DID. OR US-5800698-\$.DID. OR US-4612108-\$.DID. OR US-4812223-\$.DID. OR US-4486296-\$.DID. OR US-4601993-\$.DID. OR US-5011593-\$.DID. OR WO-0117901-\$.DID. OR EP-1106592-\$.DID. OR WO-9613563-\$.DID. OR US-6809055-\$.DID. OR US-6844479-\$.DID. OR WO-0232812-\$.DID. OR WO-023281242002-\$.DID. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:09 |
| S60 | 6 | S59 and hydrocarbon and (convert\$4 or conversion) and distillat \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:10 |

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| S61 | 4 | S60 and hydrocrack\$4 and catalyst and zeolite | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:10 |
| S62 | 3 | S61 and (tungsten or molybdenum or nickel or iron or cobalt or ruthenium or rhodium or palladium or osmium or iridium or platinum) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:11 |
| S63 | 650 | "HANSEN, JENS".in.; "BLOM, NIELS".in.; "BYBERG, BIRGITTE".in.; "WARD, JOHN".in. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:14 |
| S64 | 109 | S63 and hydrocarbon and (convert\$4 or conversion) and distillat \$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:27 |
| S65 | 56 | S64 and hydrocrack\$4 and catalyst and zeolite | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2008/01/31 16:28 |
| S66 | 1 | "6261441".pn. | USPAT | OR | OFF | 2009/06/08 06:09 |
| S68 | 3048 | (208/111.3,111.35,112,120.3,120.35,123,124).CCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/09 11:27 |
| S69 | 1384 | S68 and @ad<"20020628" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:30 |
| S70 | 257 | S69 and middle near distillate | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:30 |
| S71 | 225 | S70 and hydrocrack\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:31 |
| S72 | 65 | S71 and beta near zeolite | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:31 |
| S73 | 46 | S72 and ion near exchange | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:31 |
| S74 | 0 | S73 and acidity near index | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:32 |

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| S75 | 27 | S73 and (step or stage) near hydrocrack\$4 | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 11:34 |
| S76 | 3048 | (208/111.3,111.35,112,120.3,120.35,123,124).OCLS. | US-PGPUB; USPAT; USOCR | OR | OFF | 2009/06/09 13:43 |
| S77 | 1384 | S76 and @ad<"20020628" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 13:43 |
| S78 | 257 | S77 and middle near distillate | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 13:43 |
| S79 | 0 | S78 and acidity near index | US-PGPUB; USPAT; USOCR | OR | ON | 2009/06/09 13:43 |
| S80 | 1 | "6261441".pn. | USPAT | OR | OFF | 2009/10/29 11:15 |
| S81 | 1 | S80 and beta | USPAT | OR | OFF | 2009/10/29 11:15 |
| S82 | 1 | "4894142".pn. | USPAT | OR | OFF | 2009/10/29 11:35 |
| S83 | 1 | S82 and beta | USPAT | OR | OFF | 2009/10/29 11:36 |
| S84 | 31 | (zsm adj "12" or beta adj zeolite) and (acidity adj index or TPD or ECA) and @ad<"20020628" | USPAT | OR | ON | 2009/10/29 11:40 |
| S85 | 37 | (zsm adj "12" or beta adj zeolite) and (acidity adj index or TPD or ECA) and @ad<"20020628" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/29 11:40 |
| S86 | 18 | S85 and "208".clas. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/29 11:41 |
| S87 | 227 | (zsm adj "12" or beta adj zeolite) and (acidity adj index or TPD or ECA or ion adj exchange adj capacity or ion-exchange-capacity) and @ad<"20020628" | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/29 11:44 |
| S88 | 80 | S87 and "208".clas. | US-PGPUB; USPAT; USOCR | OR | ON | 2009/10/29 11:45 |
| S89 | 1 | "4820402".pn. | USPAT | OR | OFF | 2009/12/18 18:01 |

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| S90 | 343 | hydrocracking and (crystalline or crystallinity) near (percent or weight) | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/19 12:01 |
| S91 | 225 | S90 and @ad<"20020628" | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/19 12:05 |
| S92 | 3 | S91 and beta adj zeolite with hydrocracking | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/19 12:06 |
| S93 | 71 | S91 and zeolite with hydrocracking | US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2009/12/19 12:11 |

9/ 15/ 2010 7:22:23 AM

H:\ East\ Workspaces\ catalyst comprising zeolite beta and use in hydrocarbon cracking 10518789.wsp